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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,138	01/14/2002	Hendrik Frank	A-3246	2344
75	10/06/2003		EXAM	IINER
LERNER AND GREENBERG, P.A.			CHAU, MINH H	
Post Office Box	2480			
Hollywood, FL 33022-2480			ART UNIT	PAPER NUMBER
•			2854	

DATE MAILED: 10/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/045,138	FRANK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Minh H Chau	2854	
Th MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a r or within the statutory minimum of thin will apply and will expire SIX (6) MON cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communicati	ion.
1)⊠ Responsive to communication(s) filed on 14 J	lanuary 2002 .		
_	is action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under	ince except for formal ma	eters, prosecution as to the merits D. 11, 453 O.G. 213.	s is
Disposition of Claims			
4) $\boxtimes$ Claim(s) <u>1-18</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdrav	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-18</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examiner			
10) ☐ The drawing(s) filed on 14 January 2002 is/are:		•	
Applicant may not request that any objection to the		· ·	
11) The proposed drawing correction filed on If approved, corrected drawings are required in rep		isapproved by the Examiner.	
12) The oath or declaration is objected to by the Exa	•		
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign	priority under 35 LLS C 4	: 110(a) (d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	priority under 33 0.0.0.	3 1 19(a)-(u) 01 (1).	
1. ☐ Certified copies of the priority documents	have been received		
2.☐ Certified copies of the priority documents		nolication No	
3. Copies of the certified copies of the prior	ity documents have been	•	
application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)). of the certified copies not	received.	
14) Acknowledgment is made of a claim for domestic			tion).
a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic	visional application has be	en received.	,.
Attachment(s)	priority under 33 U.S.C.	33 120 anu/01 121.	
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.	5) Notice of I	iummary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

## Claim Objections

1. Claims 7-9 and 11-13 are objected to because of the following informalities: There is insufficient antecedent basis for the following recitation:

Claim 7, "said position point" (line 5).

Claims 8 and 9, "said position point" (lines 3-4).

Claim 9, "said first interval" (line 3 and 6).

Claims 11 and 12, "said position coordinate line" (line 3).

Claim 13, "said position coordinate" (line 2 and 4).

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

2. Claims 9, 11-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 9, the recitation "said position point of said second transmitter" (line 4) and "said position point of said first transmitter" (line 6) is unclear, which creates confusion for the reader. The Examiner is unable to determining the different of the limitation of "said position point of said dimensional standard" as recited in claims 7 and 8 and "said position point of said second transmitter" or "said position point of said first transmitter" as recited in claim 9. What is the connection between the position point of the dimensional standard and the position point of the first or second transmitter?

With respect to claims 11 and 12, the recitation "said position coordinate line" (line 3) is inferentially recited. What is the connection between the "position coordinate line" with the static part or the dimensional standard?

With respect to claim 13, the recitation "said position coordinate" (line 2 and 4) is inferentially recited. It is also noted that the language "said position coordinate of said dimensional standard" is unclear which creates confusion for the reader. The Examiner is unable to determine the relationship between the "position coordinate" and the "dimensional standard". There is no language in this claim (claim 13) or independent claim (claim 1) that indicates or introduces the relationship between these two features.

3. To the extend that claims 9 and 11-15 are definite and understandable the following prior art rejections appear to be proper.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3, 7-12 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Kruger et al. (US # 5,809,892).

With respect to claims 1, 16, 17 and 18, Kruger et al. teach printing machine (1) comprising a feeder (8), at least one printing unit (10), a post processing unit (12) and at least

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one transport system having a device for registering the position of a pulling device or rotor part (22), the transport system also having a static part (20) in addition to the rotor part, a dimensional standard forming part (44) of the rotor part and a plurality of sensors or transmitters (52) provided on the static part (20) (see Fig. 2 and cols. 5-6 of Kruger et al.)

With respect to claim 2, see Fig. 2 of Kruger et al. that show the plurality of sensor or transmitters (52) are arranged along a position coordinate line of a position coordinate.

With respect to claim 3, see Fig. 2 of Kruger et al. that show respective pairs of the plurality of sensor or transmitters (52) arranged successively along the position coordinate line have at least approximately the same mutual spacing.

With respect to claim 7, see col. 6, lines 36-59 of Kruger et al. that teach at least one of the transmitter (52) serves for generating an output signal on an interval in an environment around the one transmitter as the function or a monotonic function of the position point of the dimensional standard.

With respect to claim 8, see Fig. 5 and cols. 7-8 of Kruger et al. that teach the interval has a given length of the position coordinate of the dimensional standard and when the position point of the dimensional standard is in the interval, at least a first one of the transmitters serves for generating a first output signal, and at least a second one of the transmitters, which follows the first transmitter, serves for generating a second output signal.

With respect to claim 9, see Fig. 5 and cols. 7-8 of Kruger et al. that teach the first transmitter is surrounded by an environment wherein the first interval is located and from which the second transmitter is absent and when the rotor part traveling to the second transmitter, the

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second transmitter is surround by an environment, wherein the first interval is located and from which the first transmitter is absent.

With respect to claim 10, see col. 6, lines 34-59 of Kruger et al. that teach the use sensors (52) for detecting the respective physical position and/or speed of the rotor part (22) and comparing these values with the reference value. In view of this teaching, it is clear to one of skill in the art that the sensors or the transmitters that taught by Kruger et al. at least one reference pulse transmitter and at least one absolute transmitter.

With respect to claim 11, see Fig. 2 of Kruger et al. that show two reference pulse transmitters (52) arranged along the position coordinate line have at least approximately the same mutual spacing.

With respect to claim 12, see Fig. 2 of Kruger et al. that show the spacing between two successive reference pulse transmitters (52), respectively, along the position coordinate line is at most equal to the spacing between two successive transmitters (52).

# Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kruger et al. as applied to claim 1 above.

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With respect to claim 4, Kruger et al. plurality of transmitters (52) arranged along the static part and the space between the two successive transmitters is a most equal to one and a half of the length of the dimensional standard having a space between. Kruger et al. teach all the limitations as explained above, except for the spacing between two successive transmitters is at most equal to the length of the dimensional standard. It would have been obvious to one of skill in the art to modify the device of Kruger et al. to have a space between the two successive transmitters is at most equal to the length of the dimensional standard so that the number of transmitters can be reduces, thereby the cost for these transmitter can be reduce.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kruger et al. as applied to claim 1 above, and in view of Haeberli et al. (US # 6,288,533).

With respect to claim 5, Kruger et al. teach all the limitations as explained above, except for the transmitters are magnetic field detectors.

Haeberli et al. teach an apparatus for detecting rotor position including the use of magnetic field detector (see Fig. 1 and col. 3 of Haeberli et al.)

In view of this teaching, it would have been obvious to one of ordinary skill in the art to modify the device of Kruger et al. to include the magnetic field detector as taught by Haeberli et al. so that the position of the magnetic source can be accurately and properly detected by the magnetic field sensor.

9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kruger et al. as applied to claim 1 above, and in view of Holzapfel et al. (DE 19748802).

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With respect to claim 6, Kruger et al. teach all the limitations as explained above, except for the "transmitters are optical detectors ... incident light".

Holzapfel et al. teach an optical position-measuring device for determining the position of the moving objects including optical detector unit (25) for detecting the light source (21) that reflected from the pattern surface of the moving object (see Fig. 1 of Holzapfel et al.)

In view of this teaching, it would have been obvious to one of ordinary skill in the art to substitute the sensor system of Kruger et al. with the optical measuring system as taught by Holzapfel et al. Such substitution would involves an obvious substitute of one know sensor system for another known sensor system.

10. Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kruger et al. ('892) as applied to claim 1 above, and in view of Kruger et al. (US # 6,240,843).

With respect to claim 13, Kruger et al. ('892) teach all the limitations as explained above, except for the limitation of "a first position point ... dimensional standard".

Kruger et al. ('843) teach sheet transport system for a rotary printing press comprising a position-registering device including a first position point of the position coordinate of the dimensional standard (10a) coincides with a second position point of the position coordinate of the dimensional standard (10a) (see Fig. 4 that show the closed loop or path of the transport device 4).

In view of this teaching, it would have been obvious to one of ordinary skill in the art to modify the device of Kruger et al. ('892) to include the a first position point of the position coordinate of the dimensional standard coincides with a second position point of the position

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coordinate of the dimensional standard as taught by Kruger et al. ('843) to allow the position of the rotor part transport in the closed loop path can be properly detected.

With respect to claims 14 and 15, see Fig. 2 of Kruger et al. that show two successive transmitters or two successive reference transmitters, respectively, a transmitters or reference transmitters with a minimum index and a transmitters or reference transmitters with a maximum index having at least approximately the same mutual spacing.

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Applicant's attention is invited to the patent to Andoh (US # 5,130,583) and Schmid et al. (US # 6,532,791).
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh H Chau whose telephone number is (703) 305-0298. The examiner can normally be reached on M TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H Hirshfeld can be reached on (703) 305-6619. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MHC September 21, 2003 Whilau